

OM protein - protein search, using sw model										
Run on: March 14, 2003, 05:19:53 ; Search time 29.9551 Seconds (without alignments)										
Copyright (C) 1993 - 2003 Compugen Ltd.										
Title: Perfect score: US-09-698-781-3										
Sequence: 1 MKQIILHPAELTTANTLFPVL. KHQLVYRDCKASCNCSNSIV 258										
Scoring table: BLOSUM62 Gapext 10.0 , Gapext 0.5										
Searched: 283224 seqs, 96134422 residues										
Total number of hits satisfying chosen parameters: 283224										
Minimum DB seq length: 0										
Maximum DB seq length: 200000000										
Post-processing: Minimum Match 0%										
Maximum Match 100%										
Listing first 45 summaries										
Database : PIR_73;*										
1: pir1;*										
2: pir2;*										
3: pir3;*										
4: pir4;*										
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.										
SUMMARIES										
Result No.	Score	Query	% Match	Length	DB ID	Description				
1	1371	95.5	245	2	S68691	neutrophil granules matrix glycoprotein SGP28 precursor - human				
2	988	68.8	243	2	B3329	C;Species: Homo sapiens (man)				
3	852	59.3	243	2	JE0204	C;Date: 15-Feb-1997 #sequence; 13-Mar-1997 #text_change 17-Nov-2000				
4	830	57.8	243	2	A3329	C;Accession: S68691; S7413; S8683				
5	766.5	53.4	244	2	A49202	R;Kjeldsen, L.; Cowden, J.B.; Johnsen, A.H.; Borregaard, N.				
6	755.5	52.6	246	2	A24509	FEBS Lett. 380, 246-250, 1996				
7	617.5	43.0	241	2	B49202	A;Title: SGP28, a novel matrix glycoprotein in specific granules of human neutrophill				
8	529.5	36.9	178	2	S68691	A;Reference number: S68691; MUID: 96186934; PMID: 860434				
9	373.5	26.0	266	2	JC5108	A;Accession: S68691; MUID: 96270732; PMID: 865901				
10	328	22.8	219	2	JC4131	A;Molecule type: protein				
11	322.5	22.5	219	2	JC4131	A;Accession: S68691				
12	269	18.7	202	2	G44583	A;Status: preliminary				
13	265	18.5	202	2	H44583	A;Molecule type: mRNA				
14	259	18.0	227	2	A31085	A;Residues: 1-105; 'S', 107-245 <KRA>				
15	257.5	17.9	211	2	B58953	A;Cross-references: EMBL: x95240; PIDN:CAA64527.1; PID: g1262818				
16	252.5	17.6	207	2	T22438	C;Genetics:				
17	251	17.5	312	2	T16451	A;Gene: SGP28				
18	250.5	17.4	204	2	A44583	C;Superfamily: cysteine-rich secretory protein 1				
19	250.5	17.4	205	2	D4583	F1-19/Domain: signal sequence #status predicted <SIG>				
20	250.5	17.4	213	2	B31085	F;20-245/Product: neutrophil granules matrix glycoprotein SGP28 #status predicted <KRA>				
21	247.5	17.2	207	2	T22438	Query Match				
22	245.5	17.1	204	2	B44583	95.5%; Score 1371; DB 2; Length 245;				
23	244.5	17.0	425	2	C89753	Best Local Similarity 100.0%; Pred. No. 1.7e-102;				
24	243.5	17.0	204	2	B37729	Matches 245; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
25	243.5	17.0	208	2	T19852	Db				
26	241.5	16.8	204	2	C44583	Oy				
27	240.5	16.7	206	2	E44583	14 MTLFPVLLFLVAGLPLSPPANEDKDPAFTALLTQTQVOREIVKHNRLRAVSPARM 73				
28	240.5	16.7	208	2	T20651	Db				
29	239.5	16.7	246	2	T24493	Oy	61 ILMWENKEAAABQKWAQNQCNRHSNPKDRMTSLKCGEGLYNNSSAPSSWSQALQSFWDEY 120			
						Oy	134 NDFDFGCGPKTNAVGHYQWYMSLVGGGNAYCNQVKYKYWCQCPAGNAR 193			
						Oy	121 NDFDFGCGPKTNAVGHYQWYMSLVGGGNAYCPNOKVLYYYYCOYCQCPAGNAR 180			
						Oy	194 LYVPEQGAPCSCPDNCDDGLCTNGCKEDLYSNCKSILTLCKHOLYRDCKASCNC 253			
						Oy	181 LYVPEQGAPCSCPDNCDDGLCTNGCKEDLYSNCKSILTLCKHOLYRDCKASCNC 240			

RESULT 2

cysteine-rich secretory protein 2 type I precursor - human
 N; Alternate names: testis specific protein
 C; Species: Homo sapiens (man)

C; Date: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 20-Jun-2000
 C; Accession: B33329; MUID:90129048; PMID:2613236

A; Status: preliminary
 A; Molecule type: mRNA
 A; Residues: 1-243 <KAS>
 A; Cross-references: GB:MB2532; NID:9339882; PIDN:AAA61220_1; PID:9339883
 R; Kraetschmar, J.; Haendler, B.; Eberspaecher, U.; Roosterman, D.; Donner, P.; Schleunig, J.; Biochem. 23(6), 827-836, 1996
 A; Title: The human cysteine-rich secretory protein (CRISP) family. Primary structure and
 A; Reference number: 568681; MUID:96270732; PMID:8665901
 A; Accession: S68682
 A; Status: preliminary
 A; Molecule type: mRNA
 A; Residues: 1-243 <KRA>
 C; Genetics:
 A; Gene: GDB:Tpx1
 A; Cross-references: GBP:120760; OMIM:187430
 A; Map Position: 6p21.6pter
 C; Superfamily: cysteine-rich secretory protein 1
 F; 1-20; Domain: signal sequence #status predicted <SIG>
 F; 21-243; Product: cysteine-rich secretory protein 2 type I #status predicted <NAT>
 Query Match 68.8%; Score 988; DB 2; Length 243;
 Best Local Similarity 71.8%; Pred. No. 7.6e-72;
 Matches 176; Conservative 25; Mismatches 42; Indels 2; Gaps 2;
 QY 14 MTLPFLVPLFLVAGLULPSPFSPANEDKDPARTTLLTTQVORETIVNKHNELRRAVSPPARNM 73
 Db 1 MAILPV-LFLVPLFLVPSLPA-EGKDPARTTLLTTQVORETIVNKHNELRRAVSPPARNM 58
 QY 74 LKMEWNEKAANAOQWAQNQCNRYHNSPKDRMTSLKGEGNLMSAPSSWQAIQSWEDEY 133
 Db 59 LKMEWNEKAANAOQWAQNQCNRYHNSPKDRMTSLKGEGNLMSAPSSWQAIQSWEDEY 118
 Qy 134 NDFDGVGPKTPNAVGHYQVWVWSSYLVCGGNAYCQPKVLUVYVQYCQPGAWNR 193
 Db 119 LDFFVYGVGPKSPNAVGHYQVWVYQYCQPGAWNR 178
 Qy 194 LYVPEQOGACSCPDNCDDGLCTNGCKYEDLYSNCISLKLTLTCKHQLVDRDSCASCNC 253
 Db 179 KNPYQOQTCAGCPDDCKGKGLCTNSCOYQDLISNCDSLNTAGCEHELLKEKKCATCLC 238
 Qy 254 SNSIY 258
 Db 239 ENKYY 243

RESULT 3

testicular protein Tpx-1 - rat
 C; Species: Rattus norvegicus (Norway rat)
 C; Date: 21-Aug-1998 #sequence_revision 21-Aug-1998 #text_change 21-Jul-2000
 C; Accession: JE0204
 R; Maeda, T.; Sakashita, M.; Ohba, Y.; Nakanishi, Y.
 R; Biochem. Biophys. Res. Commun. 248, 140-146, 1998
 A; Reference number: JE0204; MUID:9830864; PMID:967500

RESULT 4

cysteine-rich secretory protein - mouse
 C; Species: Mus musculus (house mouse)
 C; Date: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 29-Sep-1999
 C; Accession: A33329
 R; Kasahara, M.; Gutknecht, J.; Brew, K.; Spurr, N.; Goodfellow, P. N.
 Genomics 5, 527-534, 1989
 A; Title: Cloning and mapping of a testis-specific gene with sequence similarity to a
 A; Reference number: A33329; MUID:90129048; PMID:2613236
 A; Status: preliminary
 A; Molecule type: mRNA
 A; Residues: 1-43 <KAS>
 A; Cross-references: GB:MB2533; NID:9202126; PIDN:AAA40472_1; PID:9202127
 C; Superfamily: cysteine-rich secretory protein 1
 Query Match 57.8%; Score 830; DB 2; Length 243;
 Best Local Similarity 59.6%; Pred. No. 3.3e-59;
 Matches 146; Conservative 39; Mismatches 58; Indels 2; Gaps 2;
 QY 14 MTLPFLVPLFLVAGLULPSPFSPANEDKDPARTTLLTTQVORETIVNKHNELRRAVSPPARNM 73
 Db 1 MAWFQMLFVFAVLIP-LPPTEGKDPDTATLTOVORETIVNKHNELRRAVSPPARNM 59
 QY 74 LKMEWNEKAANAOQWAQNQCNRYHNSPKDRMTSLKGEGNLMSAPSSWQAIQSWEDEY 133
 Db 60 LKMEWNEKAANAOQWAQNQCNRYHNSPKDRMTSLKGEGNLMSAPSSWQAIQSWEDEY 119
 QY 134 NDFDGVGPKTPNAVGHYQVWVWSSYLVCGGNAYCQPKVLUVYVQYCQPGAWNR 193
 Db 120 EDFFVYGVGAK-PNSAVGHYQVWVYQYCQPGAWNR 178
 QY 194 LYVPEQOGACSCPDNCDDGLCTNGCKYEDLYSNCISLKLTLTCKHQLVDRDSCASCNC 253
 Db 179 KSTPYQOQTCAGCPDDCKGKGLCTNSCOYQDLISNCDSLNTAGCEHELLKEKKCATCLC 238
 Qy 254 SNSIY 258
 Db 239 ENKYY 243

RESULT 5

cysteine-rich secretory protein 1
 A; Accession: JE0204
 A; Molecule type: mRNA
 A; Residues: 1-243 <MAE>
 A; Cross-references: DDBJ:AB009662; NID:93374579; PIDN:BAA32029_1; PID:93374580
 C; Comment: This protein functions as a cell adhesion protein for the association bet
 C; Genetics:
 A; Map Position: 17
 C; Superfamily: cysteine-rich secretory protein 1
 Query Match 59.3%; Score 852; DB 2; Length 243;
 Best Local Similarity 61.6%; Pred. No. 5.8e-61;
 Matches 151; Conservative 31; Mismatches 61; Indels 2; Gaps 2;
 Db 1 MAWFQMLFVFAVLIP-LPPTEGKDPDTATLTOVORETIVNKHNELRRAVSPPARNM 59
 QY 74 LKMEWNEKAANAOQWAQNQCNRYHNSPKDRMTSLKGEGNLMSAPSSWQAIQSWEDEY 133
 Db 60 LKMEWNEKAANAOQWAQNQCNRYHNSPKDRMTSLKGEGNLMSAPSSWQAIQSWEDEY 119
 QY 134 NDFDGVGPKTPNAVGHYQVWVWSSYLVCGGNAYCQPKVLUVYVQYCQPGAWNR 193
 Db 120 ENFVFVGYAK-PNSAVGHYQVWVYQYCQPGAWNR 178
 QY 194 LYVPEQOGACSCPDNCDDGLCTNGCKYEDLYSNCISLKLTLTCKHQLVDRDSCASCNC 253
 Db 179 KSTPYQOQTCAGCPDDCKGKGLCTNSCOYQDLISNCDSLNTAGCEHELLKEKKCATCLC 238
 Qy 254 SNSIY 258
 Db 239 ENKYY 243

Db 239 EDKIH 243

C;Keywords: glycoprotein; sperm

F;1-19;Domain: signal sequence #status predicted <SIG>

I;20-246/Product: acidic epididymal glycoprotein #status predicted <MAT>

RESULT 5

A49202 cysteine-rich secretory protein-1 - mouse

N;Alternate names: CRISP-1

C;Species: *Mus musculus* (house mouse)

C;Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 29-Sep-1999

C;Accession: A49202

R;Haendler, B.; Kratzschmar, J.; Theuring, F.; Schleuning, W.D.

Endocrinology 133, 192-198, 1993

A;Title: Transcripts for cysteine-rich secretory Protein-1 (CRISP-1; DE/AEG) and the nov

A;Reference number: A49202; MUID:93307144; PMID:8319566

A;Accession: A49202

A;Status: preliminary

A;Molecule type: nucleic acid

A;Residues: 1-244 <HAB>

A;Cross-references: GB:L05559; NID:9309190; PIDN:AAA37460.1; PID:9309191.

A;Experimental source: NMR1, epididymis, salivary gland

A;Note: sequence extracted from NCBI backbone (NCBIN:134675, NCBI:134676)

C;Superfamily: cysteine-rich secretory protein 1

Query Match 52.6%; Score 755.5; DB: 2; Length 246;

Best Local Similarity 55.1%; Pred. No. 3.1e-53; Matches 136; Conservative 35; Mismatches 73; Indels 3; Gaps 2;

Db 14 MTLPVILFLVAGLILSFF--PANEDKPAFFALLTQTTQVOREIVKHNELLRAVSPPAR 71

Db 1 MALMLVLFLAAVLPSSLLQDTENDRDLNSTIKLVSQEETINKHQNQRTVSPGS 60

Db 72 NHLMKENNEKAANAKWANDOCNRHSNPDRKMTSLKGENLYMSSAPSSNSQATOSWFD 131

Db 61 DLIRVEMHDAYNAQWANRKTQYLNHSPLQLRTTLCKGKGENIFMANIPASNSVQDWDYD 120

Db 132 EVNDFDGGVGPKTPNAVGHYTOVWYSSYLVGGGNATCPNQKVLKYYVCQCPCAGNA 191

Db 121 ESUDFVFGFGPKKVGVKVGHTQVWNSTFLVACGVAECPDOP-LKYFVYCHYPCPGNNY 179

Db 192 NRUVVPBHQGAPCASCPCDNCGLCTNGCKYEDLYSNKSLKLTLCKHOLVRDSCASC 251

Db 180 GRVSPTEGEPCDCSCPNCEGDLCTNSCCEYDNYSNGDQKMSDDPLIKEGRASC 239

Db 252 NESNTY 258

Db 240 FOEDKIH 246

RESULT 6

A24609 acidic epididymal glycoprotein precursor - rat

N;Alternate names: sperm-coating glycoprotein

C;Species: *Rattus norvegicus* (Norway rat)

C;Date: 30-Jun-1988 #sequence_revision 30-Jun-1988 #text_change 29-Sep-1999

C;Accession: A40918; A24609

R;Charrest, N.J.; Joseph, D.R.; Wilson, E.M.; French, F.S.

Mol. Endocrinol. 2, 939-1004, 1988

A;Title: Molecular cloning of complementary deoxyribonucleic acid for an androgen-regula

A;Reference number: A40918; MUID:89039913; PMID:2460753

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-246 <CHA>

A;Cross-references: GB:X04643; NID:956112; PIDN:CAA28304.1; PID:956113

A;Molecule type: mRNA

A;Residues: 1-246 <BRC>

C;Superfamily: cysteine-rich secretory protein 1

RESULT 7

Ba9202 cysteine-rich secretory protein-3 - mouse

N;Alternate names: CRISP-3

C;Species: *Mus musculus* (house mouse)

C;Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 29-Sep-1999

C;Accession: B49202

R;Haendler, B.; Kratzschmar, J.; Theuring, F.; Schleuning, W.D.

Endocrinology 133, 192-198, 1993

A;Title: Transcripts for cysteine-rich secretory protein-1 (CRISP-1; DE/AEG) and the

A;Reference number: A49202; MUID:93307144; PMID:8319566

A;Accession: B49202

A;Status: preliminary

A;Molecule type: nucleic acid

A;Residues: 1-241 <HAB>

A;Cross-references: GB:L05560; NID:9309192; PIDN:AAA37461.1; PID:9309193

A;Experimental source: NMR1, epididymis, salivary gland (NCBIN:134677, NCBI:134678)

A;Note: sequence extracted from NCBI backbone

C;Superfamily: cysteine-rich secretory protein 1

Query Match 43.0%; Score 617.5; DB: 2; Length 241;

Best Local Similarity 48.4%; Pred. No. 3.3e-42; Matches 118; Conservative 40; Mismatches 79; Indels 7; Gaps 3;

Db 14 MTLPVILFLVAGLILSFF--PANEDKPAFFALLTQTTQVOREIVKHNELLRAVSPPAR 73

Db 1 MALMLVLFLAAVLPSSLLQDSQENSLSKLSKSVQEETINKHQNQRTVSPGS 60

Db 74 LKHEWKKRANQKWAQVNAQQRADKCTSHSPTELRTRNLKCGENLFFMSYLVFWSSVIOGWNES 120

Db 134 NDDFGVGPKTPNAVGHYTOVWYSSYLVGGGNATCPNQKVLKYYVCQCPCAGNA 189

Db 121 KGLIFGVQPKPQKNTVSGHPTVQWKSNSQAVCQVREP-ENDRFIVCPCPVNISH 179

Db 190 WAHLRYVYVEOGPACASCPCDNCGLCTNGCKYEDLYSNKSLKLTLCKHOLVRDSC 249

Db 180 YPSRPVLAATARAPCACSPDRCEDGLCTNSCPCDNGCKYEDLYSNKSLKLTLCKHOLVRDSC 237

Db 250 SNSTY 253

Db 238 TCQC 241

RESULT 8
568684 cysteine-rich secretory protein 1 precursor - human
C;Species: Homo sapiens (man)
C;Date: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 20-Jun-2000
C;Accession: S68684
A;Reference number: S68681; MUID:96270732; PMID:8665901
A;Accession: S68684
A;Status: Preliminary
A;Molecule type: mRNA
A;Residues: 1-249 <KRA>
A;Cross-references: EMBL:X05237; NID:91262814; PIDN:CAA64524.1; PID:91262815
C;Superfamily: cysteine-rich secretory protein 1
F;1-21/Domain: signal sequence #status predicted <SIG>
F;22-249/Product: cysteine-rich secretory protein 1 #status predicted <MAT>
Query Match Best Local Similarity 45.5%; Score 529.5; DB 2; Length 249;
Matches 111; Conservative 26; Mismatches 100; Indels 7; Gaps 5;
Qy 20 LFLFLVAG--LLP--SEPA
Db 6 LFPLVAAACCLPMLSMKKRSR-OFKNLVTDLPNVQD
Qy 76 MEWNKEAANRQWANQNYRHNSPKD-RMTLSKCGENLYMSSAPSNQAIQSWFDEW 134
Db 65 MSWEEAQACNLPSKFCDDTMSPLERLPRPTEGEINHMTSPVSU
Qy 135 DDFDFGVGPCKTPNAV-VGHYTVQWVYSSILVGCGNAYCNPQKVLYKKYQQCYPAGNWAI 193
Db 125 SPKHGEMTTDDDTDHTYQIWTASLKLIGAIASCROQSGSPRYLYCHENGDPET 184
Qy 194 LTVPEYGEGAPCAASCPCDNDGICLNGCYEDLUSNCNLKLTJCKHQDVRDSCSKAC 253
Db 185 KNEPYKIGVPCEACPSNCEDKLCTNPCLIVYDFDCDIQVHYLGCNHSTTILFKATC 244
Qy 254 SNSI 257
Db 245 DTEI 248
RESULT 9
S68681 cysteine-rich secretory protein 1-delta precursor - human
C;Species: Homo sapiens (man)
C;Date: 15-Feb-1997 #sequence_revision 13-Mar-1997 #text_change 20-Jun-2000
C;Accession: S68681; J74302
R;Kraetzschmar, J.; Haendler, B.; Eberspaecher, U.; Roosterman, D.; Donner, P.; Schleunig, T.; Chou, P.; Furtach, M.; Hock, C.; Title: The human cysteine-rich secretory protein (CRISP) family. Primary structure and function of the delta precursor. *J Biol Chem.* 266: 827-836, 1991
A;Reference number: S68681; MUID:96270732; PMID:8665901
A;Accession: S68681
A;Molecule type: mRNA
A;Residues: 1-178 <KRA>
A;Cross-references: EMBL:X05238; NID:91262812; PIDN:CAA64525.1; PID:91262813
A;Accession: S74302
A;Molecule type: protein
A;Residues: 22-41 <KRE>
C;Superfamily: cysteine-rich secretory protein 1
F;1-21/Domain: signal sequence #status predicted <SIG>
F;22-178/Product: cysteine-rich secretory protein 1-delta #status experimental <MAT>
Query Match Best Local Similarity 47.1%; Score 373.5; DB 2; Length 178;
Matches 81; Conservative 21; Mismatches 63; Indels 7; Gaps 5;
Qy 20 LLFLVLAC--LLP--SFSPANEDKOPAFTALLTQTOVOREIVNHNEARRAVSPARNMK 75
Db 6 LLFLVANACCLPMLSMKKRSR-QFNKLVIDLPNVQDIEVNHNALRRVYPPASNMK 64
RESULT 10
JC5308 testis-specific, vespidae, and pathogenesis-related protein 1 precursor - human
C;Species: Homo sapiens (man)
C;Date: 01-May-1997 #sequence_revision 01-May-1997 #text_change 19-May-2000
C;Accession: JC5308; PC4311
R;Rich, T.; Chen, P.; Furman, F.; Huynh, N.; Israel, M.A.
A;Title: RMP-1, a novel human gene with sequence similarity to genes of diverse species
A;Reference number: JC5308; MUID:97128816; PMID:8973356
A;Accession: PC4311
A;Molecule type: protein
A;Residues: 1-266 <RIC1>
A;Cross-references: EMBL:X91911; NID:91030052; PIDN:CAA63005.1; PID:91030053
A;Accession: PC4311
A;Molecule type: protein
A;Residues: 97-100:114-120;134-144 <RIC2>
A;Experimental source: brain tumor cell
C;Genes:
A;Gene: rtpv-1
C;Superfamily: yellowjacket venom allergen antigen 5
F;1-21/Domain: signal sequence #status predicted <SIG>
F;22-266/Product: testis-specific, vespidae, and pathogenesis-related protein 1 #status predicted <TM>
F;23-255/Domain: transmembrane #status predicted <TM>
Query Match Best Local Similarity 34.9%; Score 328; DB 2; Length 266;
Matches 81; Conservative 34; Mismatches 71; Indels 46; Gaps 12;
Qy 9 LETTAMTLFPVLF---VAGLUSFFPANE
Db 1 MRVTIATIAWVSVFVNSNTANILPDI-ENED-----FIKDCVRLRNKR 63
Qy 64 RAVSPPARNMKMEWNKEAANRQWANQNYRHNS--NPKDRM----TSLKG
Db 46 SEVKPTASDMIYMTWPALQIAKAWASNCFSHNTLKPPKHLHPNFTSL--GENIWTG 103
Qy 117 SAP-SSWSQATOSWFEYNDPFGVSPKTPNAVHGTVWVYSSILVGCGNAYCNPQKV 175
Db 104 SVPFISVSSATNWDEIQDFKT--RICKVCGHHTQVWVADSYKVGCAVQFCP--KV 159
Qy 176 LKY-----WVCCQCPAGWANRLLVYVPGQAPASCPCP--CDGLCTN 218
Db 160 SGFDALSLNSGAHFIGNYGGNNP---WPYRKRGATCSACPNNDKCLDNLCVN 208
RESULT 11
JC4131 glioma pathogenesis-related protein - human
C;Species: Homo sapiens (man)
C;Date: 02-Aug-1995 #sequence_revision 19-Oct-1995 #text_change 04-Mar-2000
C;Accession: JC4131
R;Murphy, E.V.; Zhang, Y.; Zhu, W.; Biggs, J.
A;Title: The human glioma pathogenesis-related protein 1 is structurally related to p110
A;Reference number: JC4131; MUID:95331646; PMID:7607567
A;Accession: JC4131
A;Molecule type: mRNA
A;Residues: 1-19 <KOR>
A;Cross-references: GB:U16307; NID:91100927; PIDN:AAA82731.1; PID:9847722
A;Experimental source: brain tumor
C;Genetics:
A;Gene: GLTRPR

A;Cross-references: GDB:683195
C;Superfamily: yellowjacket venom allergen antigen 5
C;Keywords: brain

Query Match 22.5%; Score 322.5; DB 2; Length 219;
Best Local Similarity 36.5%; Pred. No. 4.4e-14;
Matches 77; Conservative 30; Mismatches 60; Indels 20; Gaps 5;
Matches 77; Conservative 30; Mismatches 60; Indels 20; Gaps 5;

Qy 25 AGLLPSPPANEDKDPAAFTALIITOTOVORETYVKHNELRRAVS---PPARNLKMENKEAANAQKHANQ 92
Db 12 ANILPD1-ENED-----FIKDCVRHNRKFSEVAKPTASDMLYNTWDPALAQ 56

Qy 85 NAQKWANQCNYRHS--NPKDMM---TSIKGENLYMSAP--SSWQAQISWEDENF 136
Db 57 IAKAWASQPSHNSNTRLKPPRHLNPFTS--GENTWGVSPVSSAITNWYDETODY 114

Qy 137 DFGVGPKPUPNAVGHYTOVWVSSYLVGCGNACPNOKVLU-----YYVCQYCAGN 189
Db 115 NWKT-RICKKVCGHYTQVWVADSYKVGCAVFCP--KVSGDALSNGAHTICNYGGGN 170

RESULT 12
R44583 venom allergen antigen Vesp C 5.01 - European hornet
C;Species: Vespa crabro (European hornet)
C;Date: 27-Jun-1994 #sequence_revision 27-Jun-1994 #text_change 11-Jan-2000
C;Accession: G44583; G44522

R.Hoffman, D.R.
J. Allergy Clin. Immunol. 92, 707-716, 1993
A;Title: Allergens in hymenoptera venom XXV: the amino acid sequences of antigen 5 molecules
A;Accession: G44583

A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-202 <HOF>

C;Superfamily: yellowjacket venom allergen antigen 5

Query Match 18.7%; Score 269; DB 2; Length 202;
Best Local Similarity 37.2%; Pred. No. 2.1e-14;
Matches 61; Conservative 23; Mismatches 60; Indels 20; Gaps 5;
Db 45 LTTQTVQKREVKHNEARRAVS-----PPARNLKMENKEAANAQKWAHQ 92

Qy 36 LTQKQNL-EIJKHNEFRQKVARGLERTRGPNPQPOPAKSMNTLVNDPELAQIAQWANQ 93

Qy 93 CNHRHSNKRDRMSLKGKENLYMSAPG---SWSQAIQSFWBNDDFGVPKTPNAV 148
Db 94 CNYGDHNCRN-SAKYSVQGQIAEGSTTADNFGSVSNMKWMEDEVKDXQYG-SPKNKLK 151

Qy 149 VGYIYQVWVYSSYLVGCGNACPNOKVLU-----YYVCQYCAGN 192
Db 152 VGHITOMWVAKTKEIGCGSIRYIEDNWYTHYLVCNYGPGGNDFNQ 195

RESULT 13
R44583 venom allergen antigen Vesp c 5.02 - European hornet
C;Species: Vespa crabro (European hornet)
C;Date: 27-Jun-1994 #sequence_revision 27-Jun-1994 #text_change 11-Jan-2000
C;Accession: H44583; H44522

R.Hoffman, D.R.
J. Allergy Clin. Immunol. 92, 707-716, 1993
A;Title: Allergens in hymenoptera venom XXV: the amino acid sequences of antigen 5 molecules
A;Accession: A44583; MUID:94044316; PMID:8227862

A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-202 <HOF>

C;Superfamily: yellowjacket venom allergen antigen 5

Query Match 18.5%; Score 265; DB 2; Length 202;
Best Local Similarity 36.6%; Pred. No. 4.4e-14;
Matches 60; Conservative 24; Mismatches 60; Indels 20; Gaps 5;

Qy 45 LTTQTVQVOREIVKHNELRRAVS---PPARNLKMENKEAANAQKHANQ 92
Db 36 LTQKNL-EIJKHNEFRQKVARGLERTRGPNPQPOPAKSMNTLVNDPELAQIAQWANQ 93

Qy 93 CNYRHSPKDRMTSLKGKENLYMSAPS---SWSQAIQSFWBNDDFGVPKTPNAV 148
Db 94 CNYGDHNCRN-SAKYSVQGQIAEGSTSADNFVNVSNMKWMEDEVKDXQYG-SPKNKLK 151

Qy 149 VGYIYQVWVYSSYLVGCGNACPNOKVLU-----YYVCQYCAGN 192
Db 152 VGYIYQVWMAKTRIEGGSEDYIEDGWHRHYLVNCYGPAGN 195

RESULT 14
A31085 antigen 5-2 precursor - bald-faced hornet
C;Species: Vespula maculata (bald-faced hornet)
C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 11-Jan-2000
C;Accession: A31085

R.Fang, K.S.Y.; Vitale, M.; Fehner, P.; King, T.P.
Proc. Natl. Acad. Sci. U.S.A. 85, 895-899, 1988

A;Title: cDNA cloning and primary structure of a white-face hornet venom allergen,
A;Reference number: A94213; MUID:88124947; PMID:3422469

A;Accession: A31085

A;Molecule type: mRNA
A;Residues: 1-227 <FAN>

A;Cross-references: GB:J03601; MUID:9156714; PID:9156715

C;Superfamily: yellowjacket venom allergen antigen 5

F;1-23?/Domain: signal sequence #status predicted <SIG>
F;1-23?/Domain: antigen 5-2 #status predicted <MAT>

Query Match 18.0%; Score 259; DB 2; Length 227;
Best Local Similarity 34.6%; Pred. No. 1.5e-13;
Matches 55; Conservative 31; Mismatches 55; Indels 18; Gaps 4;

Qy 52 OREVNKHNEARRAVS-----PPARNLKMENKEAANAQKWAHQNSN 99
Db 64 KNEIJKRHNDFRQWAKGLETRGPKGPQOPAKNNVNVNDPELAQIAQWANQDFNHD 123

Qy 100 PKDRMTSLKGKENLYMSAPS---SWSQAIQSFWBNDDFGVPKTPNAV 154
Db 124 CRN-TAKYQVQGQIAISSTTATQFRPSKLIKQWEDDEVTFNYKVGLQNSFRKQHGTYQ 182

Qy 155 VWWVSSYLVGCGNACPNOKVLU-----YYVCQYCAGN 193
Db 183 MVWGKTKIEIGCGSIRYIEDNWYTHYLVCNYGPGGNDFNQ 221

RESULT 15
B58853 venom allergen Sol r 3 - black imported fire ant
C;Species: Solenopsis richteri (black imported fire ant)
C;Date: 06-Nov-1998 #sequence_revision 06-Nov-1998 #text_change 11-Jan-2000
C;Accession: B58853

R.Hoffman, D.R.
J. Allergy Clin. Immunol. 100, 679-683, 1997
A;Title: Reactions to less common species of fire ants
A;Reference number: A58853; MUID:98049167; PMID:9389299

A;Accession: B58853

A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-211 <HOF>

C;Superfamily: yellowjacket venom allergen antigen 5

Query Match 17.9%; Score 257.5; DB 2; Length 211;
Best Local Similarity 36.2%; Pred. No. 1.8e-13;
Matches 59; Conservative 24; Mismatches 57; Indels 23; Gaps 6;

QY 49 TQORE-TVNKHNLRRAYS-----PPARNMLKMEWNEKEAANAQKWANQCNY 95
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 39 TDAEKDATVNKHNLRLQRVASYGKEMRGTNGPQPPAVKMNLTDPELATIAORVMQCTP 98
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 96 RHSNPKDRMTSLKGEGENLYMSSA---PSSWSQAIOSWDEYNDFD--FGVGDKTPNAV 148
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 99 EHACRN-VERFAGQNIATSSSGKNSKTSLSMILLWNEVKDFDNRNISSPSDGNIL 157
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 149 --VSHYTQVWYSSYLVSGGNAYCPNOKVLYYVCQXCPAGN 189
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 158 MHVGHYTOIWAKTKIGGRIMFKEDNNWNKHYLVCNYGPAGN 200
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Search completed: March 14, 2003, 05:41:32
Job time : 29.9551 secs